

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
8 March 2001 (08.03.2001)

PCT

(10) International Publication Number  
WO 01/16623 A1

(51) International Patent Classification<sup>2</sup>: G01V 1/38,  
B63B 21/66

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,  
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,  
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(21) International Application Number: PCT/NO00/00244

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,  
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(22) International Filing Date: 20 July 2000 (20.07.2000)

Published:

— With international search report.

(25) Filing Language: Norwegian

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(26) Publication Language: English

(30) Priority Data:  
19993971 17 August 1999 (17.08.1999) NO

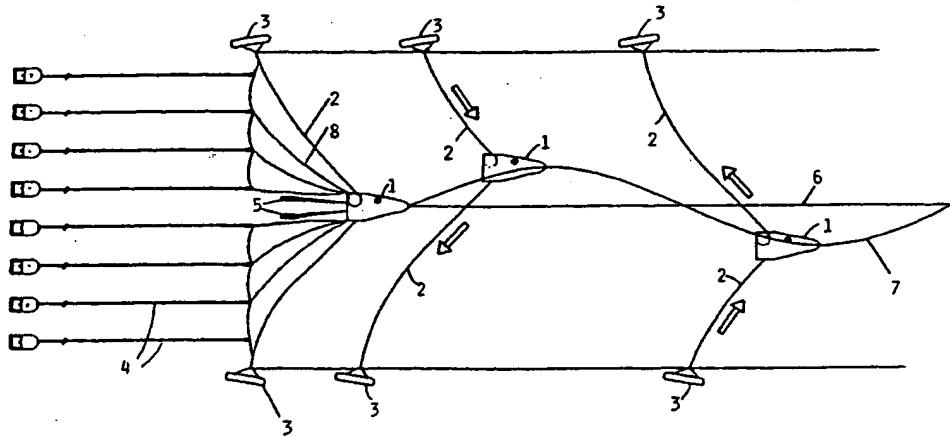
(71) Applicant (for all designated States except US): PETROLEUM GEO-SERVICES AS [NO/NO]; Strandveien 4,  
N-1324 Lysaker (NO).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SEMB, Ole, Fredrik  
[NO/NO]; Langgaten 27, N-3080 Holmestrand (NO).

(74) Agent: ABC-PATENT, SIVILING, ROLF CHR. B.  
LARSEN A.S; Brynsveien 5, N-0667 Oslo (NO).

(54) Title: SYSTEM FOR CONTROLLING A MARINE SEISMIC ARRAY



WO 01/16623 A1

(57) Abstract: System for controlling seismic arrays comprising at least one deflector coupled to one side of the towing vessel through at least one wire, lead-in or similar, the detector being positioned at a distance perpendicular to the vessel's direction of movement, the vessel being provided with a navigation system for measuring the position of the vessel. The vessel comprises calculation means for, on the basis of the vessel's position, calculating deviations in vessel's position from a predetermined path. The wire is coupled to the vessel through control organs, e.g. a winch, adapted to vary the wire length from the vessel to the deflector. The control organs are coupled to the calculation means for adjusting the wire length based on the deviations in the position of the towing vessel, thus to avoid corresponding deviations in the movements of the deflector.